

ABSTRACT OF THE DISCLOSURE

There is provided a nonaqueous electrolyte secondary battery which can reliably perform a current cut-off operation in a current cut-off state and can release a gas in a cleavage state. In the nonaqueous electrolyte secondary battery, an electrode element 2 is held in a circularly cylindrical outer packaging can 1. A lid 7, a PTC element 3, and a safety valve 6 are caulked on one end side of the outer packaging can 1 through a gasket 8 to seal one end of the outer packaging can 1. At the central portion of the safety valve 6, a projecting portion 6a projecting toward the electrode element 2 is formed. The projecting portion 6a is welded on a sub-disk 4 welded on the free end of a positive electrode lead 9. In the safety valve 6, a plurality of linear thin portions are formed along two circles centering on the projecting portion 6a. A thin portion extending in a radial direction is formed across the end portions of the thin portions adjacent to each other. In this manner, by the plurality of thin portions, one continuous thin portion is formed.

In a safety valve in which the projecting portion is connected to the lead of the electrode element through the central hole of the disk, the disk has a linear thin portion, or a linear thin portion is formed almost along a circle centering on the symmetrical point of the central hole.